

# Linear spaces with probability measures, ultraproducts and contiguity

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## Abstract

The ultraproducts of measurable linear spaces with probability measure are considered. We study some properties (sometimes exotic) of these probability spaces. Connections between the notions of ultraproduct, equivalence and contiguity, singularity and entire separateness are established. © 2014 Pleiades Publishing, Ltd.

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## Keywords

Gaussian measures, linear probability spaces, ultraproducts